

Cellstripper™

A non-enzymatic cell dissociation solution designed to gently dislodge adherent cells in culture while reducing the risk of damage associated with trypsin solutions

Cellstripper™ is a non-enzymatic cell dissociation solution, formulated with a proprietary mixture of chelators, which gently dislodges adherent cells in culture. It is designed to be an alternative to trypsin when used in conjunction with serum-free or serum-containing media. Cells can be exposed to Cellstripper™ for extended periods of time without the risk of damage associated with protein digestive enzymes like trypsin. Cellstripper™ shows superior results in comparison to enzymatic dissociation products.

Procedure*

1. Pre-warm Cellstripper™ to 37°C. This reduces cell shock associated with differences in temperature.
2. Drain and discard spent medium from the culture vessel (flask, petri dish, etc.)
3. Carefully rinse the cell sheet with the appropriate amount of a balanced salt solution or the Cellstripper™ solution, and discard. *The monolayer may be washed with either calcium and magnesium free balanced salt solution (21-021 or 21-031) or the Cellstripper™ solution itself. Testing the effects of each on a particular cell line will help determine the appropriate wash solution to use.*
4. Add the Cellstripper™ solution to the side of the vessel opposite the cells and gently swirl the vessel to cover the monolayer. Allow cells to incubate several minutes and monitor for dissociation; cells will begin to round up and become loose. Timing may vary depending on the cell type, age of monolayer, and other factors. Cells usually dissociate within 10 - 20 minutes. Tapping the side of the vessel will facilitate removal of difficult cell lines.
5. Once cells appear detached, add an appropriate amount of growth medium. Gently triturate to disperse cells into suspension; too vigorous pipetting may cause cell damage.
6. Proceed with counting and/or subculturing, as necessary.

Product Description	Catalog No.	Size
Cellstripper™ Non-enzymatic Cell Dissociation Solution	25-056-CI	6 x 100 mL
Hanks' Balance Salt Solution, 1X without Calcium and Magnesium	21-021-CV	6 x 500 mL
Dulbecco's Phosphate-Buffered Saline, 1X without Calcium and Magnesium	21-031-CV	6 x 500 mL

*The following instructions are applicable to most cell lines. Actual procedures and concentrations should be determined by experience with individual cell lines. Researchers should regularly monitor cell viability when subculturing to determine the best procedures for specific applications.